

TSSG/RED/ATB-039-70
11 February 1970

MEMORANDUM FOR THE RECORD

SUBJECT: Revised Proposals from [REDACTED]

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25X1 1. [REDACTED] proposals entitled: "Analog Optical Processing" and "On-line Image Processing by the Photointerpreter", have been consolidated. The details of the new proposal were worked out during meetings in Boston on 6 and 7 February 1970 of the undersigned with [REDACTED]. The original analog optical processing proposal contained one task concerned with photographic materials evaluation. This task was deleted from the combined proposal mentioned above, and is now submitted as a separate document entitled: "Unsolicited Proposal for Photographic Materials Evaluation" and priced at [REDACTED] all copies were transmitted to [REDACTED]. The consolidated proposal entitled: "Optical Image Manipulation and Microscope Viewing System Specifications", is priced at [REDACTED]. This effort involves three primary tasks: (1) optical image manipulation and the development of fundamental expertise in-house, (2) demonstration of feasibility on operational material of optical image manipulation, (3) specification of optical viewing systems parameters.

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25X1 2. The primary emphasis is on the first task which is priced approximately [REDACTED] (four months), the balance of the contract being equally distributed over the other tasks. The work statement and project schedule details the manner in which this program will be executed. These portions of the new proposal are completely revised. Milestones are included in the project schedule after the first four, seven, and ten months into the contract. The program is well balanced and will provide the necessary assistance to develop a meaningful in-house optical manipulation facility.

3. The work statement makes reference to the experimental plan without actually detailing the plan itself. This is a reasonable approach since the plan only can be worked out in cooperation with the sponsor and firm commitments made only when a contract exists. However, we did discuss a tentative outline or approach to the experiments in an attempt to answer the question; how would we begin should we be given a specific starting date? Topics included command and control, personnel, equipment, time, funds, goals, project objectives, the July 70 technique comparisons, and the emphasis placed by the sponsor on this particular program. Our attention was directed to the first four months of the contract, and the first several meetings of contractor and sponsor personnel. Should nothing tangible and concrete come from these meetings, the program would languish

SECRET

Excluded from automatic
downgrading and
declassification

25X1 in trivia, minutiae and mediocrity. The first meeting will be no less than three days in length. Participants will include [redacted] 25X1
[redacted], representing the sponsor. It is our intention that each meeting follow a similar sequence; though each session may vary in length. The session will start in the conference room where the theory and hypotheses will be discussed. Next comes the laboratory phase; where the participants will set up equipment, execute, experiment and collect the data. Then they will return to the conference room for a very detailed discussion of the results and the planning of the future work to be performed by the laboratory personnel after the contractors have returned to Boston. After these experiments have been completed, the contractor's will return and during the initial conference session, review the experiments performed in their absence; then the sequence will be repeated. Prior to the first conference, 25X1
[redacted] will forward a list of reading references with indications of the points each reader should stress. This will serve as a primer for the technical sessions. The contractor will provide any books or other reference material that is essential during this initial tutorial phase of the contract. [redacted] has an extensive background in the field of coherent optics which will provide laboratory and theoretical assistance to [redacted] 25X1
[redacted] In addition, he will play a strong part in the wedding of optical digital manipulation methods. His thesis, done under [redacted] 25X1
[redacted] was concerned with producing a hologram using an optical system, scanning and digitizing it, then *processing it in* the computer and finally creating a hologram.

4. After a detailed review of the work done under the previous contract and in recognition of the general situation that now exists in the laboratory, it was agreed that the Chief, [redacted] 25X1
[redacted] would spend whatever time was necessary at the first session elucidating ground rules for both the contractor and laboratory personnel. The topics to be covered will include the objectives of the program, the participants role, the responsibilities toward equipment utilization, time records, and documentation requirements.

25X1 5. While the [redacted] concept of operation is to involve all personnel in contract monitoring as well as laboratory work, the present staff personnel have been involved solely in contract monitoring during the past year or more and they have not devoted adequate time to laboratory experiments. Therefore it is a primary objective of this initial period to raise their level of technical expertise.

[redacted] 25X1
Chief, Image Technology Section
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